



POSTER LEBRUN FRENAY

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[P05.062] A Treatment for Lipoatrophy-Induced Injection with Subcutaneous Glatiramer Acetate

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**OBJECTIVE:** To evaluate the efficacy of endermology on glatiramer-induced lipoatrophy.

**BACKGROUND:** Glatiramer acetate (GA) is an immunomodulatory drug, with an excellent safety profile, that is currently used for treatment of multiple sclerosis and is administered as daily subcutaneous injections of 20 mg. The most common adverse effects, which occur in approximately 20% to 60% of the patients, include pain, inflammation and induration at the injection sites.

**DESIGN/METHODS:** We proposed to patients with lipoatrophy, due to GA injections, to performed sessions of endermology (LPG). All patients underwent LPG twice a week during 30 minutes. A cycle of two months was initially proposed. If the patient was satisfied with the result, sessions were continued with one session per week until the 4<sup>th</sup> month. **RESULTS:** Eight Patients treated with GA

and presenting with lipoatrophy were prospectively recruited. None of them complained of any adverse events (pain, spasticity). After 8 weeks of treatment, all had a visible reduction of lipoatrophic area. MRI showed no major subcutaneous changes except for a reduction in and repartition of fatty tissues. Added to visible results, GA injections were more easy and painless. **CONCLUSIONS/RELEVANCE:** The LPG cellu M6 keymodule is a mechanotransduction machine that stimulates the skin's surface in triggering cells to activate lypolysis and collagen production. It has never been used for treatment of lipoatrophy due to drug treatment or in specific diseases associated with lipoatrophy (diabetes, HIV). The prevention and management of lipoatrophy includes patient education, regular examination and manual palpation of all injection sites. However, no treatment has been found for established lipoatrophy. LPG endermology can help patients to resolve this side effect and to continue immunomodulatory treatment.

Category - MS and Related Diseases - Clinical Science

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Poster Session V: Multiple Sclerosis and Related Diseases: Drug Mechanisms II (7:30 AM-12:00 PM)